ABSTRACT

An improved excitation enhancement system is provided for speech coding systems. As speech data applications continue to operate in areas having intrinsic

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bandwidth limitations, the perceptual quality of reproduced speech data in typical speech coding systems suffers. The invention employs short term enhancement to improve perceptual quality in reproduced speech. The short term enhancement is may be performed on the fixed codebook in eXtended code excited linear prediction (eX

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CELP) or may be performed as post-processing in the decoder.